

**CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
INVOLVED IN CARBON METABOLISM AND ENERGY PRODUCTION**

Abstract of the Disclosure

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10 Isolated nucleic acid molecules, designated SMP nucleic acid molecules, which
encode novel SMP proteins from *Corynebacterium glutamicum* are described. The
invention also provides antisense nucleic acid molecules, recombinant expression
vectors containing SMP nucleic acid molecules, and host cells into which the expression
vectors have been introduced. The invention still further provides isolated SMP
proteins, mutated SMP proteins, fusion proteins, antigenic peptides and methods for the
improvement of production of a desired compound from *C. glutamicum* based on
genetic engineering of SMP genes in this organism.

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